

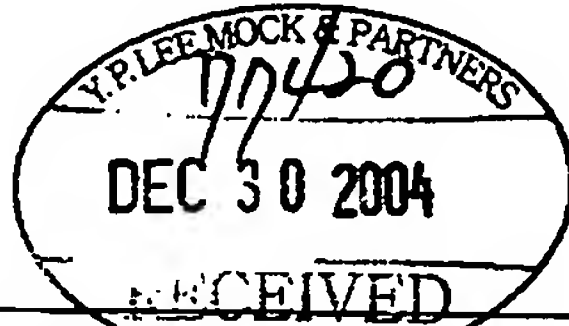
PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:

LEE, Young-Pil

The Cheonghwa Building, 1571-18 Seocho-dong, Seocho-gu
Seoul 137-874, Republic of Korea



PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

| | |
|--|--|
| Applicant's or agent's file reference SH-23003-PCT | Date of mailing (day/month/year) 21 DECEMBER 2004 (21.12.2004) |
| International application No. PCT/KR2004/002481 | International filing date (day/month/year) 24 SEPTEMBER 2004 (24.09.2004) |
| Applicant SAMSUNG ELECTRONICS CO., LTD. et al | |

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.

Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes
1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.
3. ☐ With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
- ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
- ☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. Reminders

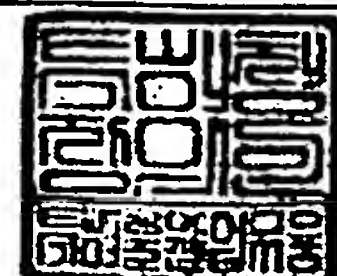
Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

| | |
|---|--|
| Name and mailing address of the ISA/KR Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140 | Authorized officer COMMISSIONER Telephone No. 82-42-481-5207 |
|---|--|



PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

LEE, Young-Pil

The Cheonghwa Building, 1571-18 Seocho-dong, Seocho-gu
Seoul 137-874, Republic of Korea

PCT

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

(PCT Rule 43bis.1)

Date of mailing
(day/month/year) **21 DECEMBER 2004 (21.12.2004)**

Applicant's or agent's file reference

SH-23003-PCT

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/KR2004/002481

International filing date (day/month/year)

24 SEPTEMBER 2004 (24.09.2004)

Priority date(day/month/year)

30 SEPTEMBER 2003 (30.09.2003)

International Patent Classification (IPC) or both national classification and IPC

IPC7 G11B 20/10

Applicant

SAMSUNG ELECTRONICS CO., LTD. et al

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/KR



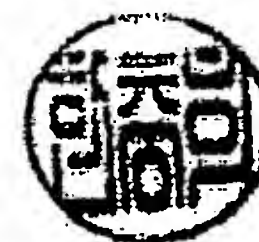
Korean Intellectual Property Office
920 Dunsan-dong, Seo-gu, Daejeon 302-701,
Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

HAN, Choong Hee

Telephone No. 82-42-481-5700



**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/KR2004/002481

Box No. I Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ This opinion has been established on the basis of a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material
☐ a sequence listing
☐ table(s) related to the sequence listing
 - b. format of material
☐ in written format
☐ in computer readable form
 - c. time of filing/furnishing
☐ contained in the international application as filed.
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/KR2004/002481

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

| | | | |
|-------------------------------|--------|------|-----|
| Novelty (N) | Claims | 1-17 | YES |
| | Claims | NONE | NO |
| Inventive step (IS) | Claims | 1-17 | YES |
| | Claims | NONE | NO |
| Industrial applicability (IA) | Claims | 1-17 | YES |
| | Claims | NONE | NO |

2. Citations and explanations :

Reference is made to the following documents:

D1: US 2003/0099464 A1

D2: US 2001/0053280 A1

1. Novelty and Inventive Step

Claims 1-17 meet the criteria set out in PCT Article 33(2)-(3).

D1 discloses an optical recording medium on which is recorded a predetermined subtitle code in a predetermined region in which contents are stored, and an apparatus and method of playing the optical recording medium and which is capable of displaying subtitles on a screen when the contents are played. D2 relates to an optical disc comprising a title area and a manager area and to a reproduction apparatus for such optical disc.

With regard to Claims 1 to 17, neither D1 nor D2 teaches nor fairly suggests the invention's characteristic technique wherein subtitles are reproduced according to a plurality of playback routes by multiple stories.

2. Industrial Applicability

Claims 1-17 meet the criteria set out in PCT Article 33(4).

These claims are directed to a storage medium recording subtitle information compatible with a subpicture method of a DVD and a presentation method of a bluray disc, and based on text corresponding to moving picture data having a plurality of playback routes, and a reproducing apparatus and a reproducing method therefor.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| | | |
|--|---|---|
| Applicant's or agent's file reference SH-23003-PCT | <div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> FOR FURTHER ACTION </div> <div> see Form PCT/ISA/220 as well as, where applicable, item 5 below. </div> </div> | |
| International application No. PCT/KR2004/002481 | International filing date (<i>day/month/year</i>) 24 SEPTEMBER 2004 (24.09.2004) | (Earliest) Priority Date (<i>day/month/year</i>) 30 SEPTEMBER 2003 (30.09.2003) |
| Applicant SAMSUNG ELECTRONICS CO., LTD. et al | | |

This International search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (See Box No. II)

3. ☐ Unity of invention is lacking (See Box No. III)

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. 6

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

b. ☐ none of the figure is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2004/002481**A. CLASSIFICATION OF SUBJECT MATTER****IPC7 G11B 20/10**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G1B 20/10 H04N 5

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Patents and applications for inventions since 1975

Korean Utility models and applications for utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

"multi* story or multi* path", "subtitle or subpicture"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|-----------------------|
| A | US 2003/0099464 A1 (YEONG-HEON OH ET AL) 29 May 2003 See the whole document | 1-17 |
| A | US 2001/0053280 A1 (KAZUHIKO YAMAUCHI ET AL) 20 Dec 2001 See the whole document | 1-17 |
| A | US 6,345,147 B1 (KABUSHIKI KAISHA TOSHIBA) 5 Feb 2002 See the whole document | 1-17 |
| A | US 5,497,241 A (TIME WARNER ENTERTAINMENT CO., L.P.) 5 Mar 1996 See the whole document | 1-17 |

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

21 DECEMBER 2004 (21.12.2004)

Date of mailing of the international search report

21 DECEMBER 2004 (21.12.2004)

Name and mailing address of the ISA/KR

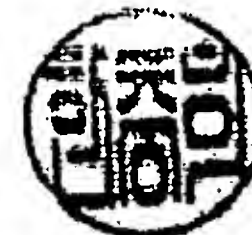
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Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

HAN, Choong Hee

Telephone No. 82-42-481-5700



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2004/002481

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
|---|---------------------|---|--|
| US 2003/0099464 A1 | 29-05-2003 | JP 2003-173629 A2 GB 2382715 A | 20-06-2003 04-06-2003 |
| US 2001/0053280 A1 | 20-12-2001 | WO 1997/039451 A1 EP 0836189 A1 | 23-10-1997 15-04-1998 |
| US 6,345,147 B1 | 05-02-2002 | WO 1997/019451 A1 JP 09-231726 A2 EP 0862509 A1 | 29-05-1997 05-09-1997 09-09-1998 |
| US 5,497,241 A | 05-03-1996 | WO 1995/012276 A1 JP 08-511148 T2 EP 0726014 A1 | 04-05-1995 19-11-1996 14-08-1996 |